

SAFETY DATA SHEET

1. Identification

Product identifier	Food Grade Silicone	Food Grade Silicone		
Other means of identification				
Product code	03041, 03042			
Recommended use	General purpose silicone-based lubricant			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplie	r/Distributor information			
Manufactured or sold by:				
Company name	CRC Industries, Inc.			
Address	885 Louis Dr.			
	Warminster, PA 18974 US			
Telephone				
General Information	215-674-4300			
Technical	800-521-3168			
Assistance				
Customer Service	800-272-4620			
24-Hour Emergency	800-424-9300 (US)			
(CHEMTREC)	703-527-3887 (International)			
Website	www.crcindustries.com			
2. Hazard(s) identification	n			
Physical hazards	Flammable liquids	Category 2		

Flammable liquids	Category 2
Skin corrosion/irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity, single exposure	Category 3 narcotic effects
Specific target organ toxicity, repeated exposure	Category 2
Aspiration hazard	Category 1
Hazardous to the aquatic environment, acute hazard	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 3
Not classified.	
	Skin corrosion/irritation Reproductive toxicity Specific target organ toxicity, single exposure Specific target organ toxicity, repeated exposure Aspiration hazard Hazardous to the aquatic environment, acute hazard Hazardous to the aquatic environment, long-term hazard

Label elements

Signal word

Hazard statement



Danger

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system, upper respiratory tract, eyes) through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

93.12% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Naphtha (petroleum), hydrotreated light		64742-49-0	70 - 80
2-Methylpentane		107-83-5	10 - 20
n-Hexane		110-54-3	3 - 5
Polydimethylsiloxane		63148-62-9	3 - 5

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
General fire hazards	Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid contact during pregnancy/while nursing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For additional information on equipment bonding and grounding, refer to the the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".
	For product usage instructions, please see the product label.

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

Occupational exposure limits US. OSHA Table Z-1 Limit	ts for Air Contamina	ants (29 CFR 1910.1	1000)	
Components		уре	Value	
n-Hexane (CAS 110-54-3)	P	EL	1800 mg/m3	
			500 ppm	
US. ACGIH Threshold Lin				
Components	Т	уре	Value	
2-Methylpentane (CAS 107-83-5)	-	TEL	1000 ppm	
n Hayana (CAS 110 E4 2)		WA WA	500 ppm	
n-Hexane (CAS 110-54-3)			50 ppm	
US. NIOSH: Pocket Guide Components		ds ype	Value	
2-Methylpentane (CAS 107-83-5)	С	eiling	1800 mg/m3	
· · · · · ,			510 ppm	
	יד	WA	350 mg/m3	
			100 ppm	
n-Hexane (CAS 110-54-3)	יד	WA	180 mg/m3	
			50 ppm	
iological limit values				
ACGIH Biological Exposu Components	re Indices Value	Determinant	Specimen Sampling Time	
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine *	
* - For sampling details, ple	ase see the source o	document.		
xposure guidelines				
US - California OELs: Ski	n designation			
n-Hexane (CAS 110-5- US ACGIH Threshold Lim	4-3)		be absorbed through the skin.	
n-Hexane (CAS 110-54		-	be absorbed through the skin.	
ppropriate engineering ontrols	changes per hou applicable, use p maintain airborn established, mai	ur) should be used. V process enclosures, e levels below recom	chaust ventilation. Good general ventilation (typically 1 Ventilation rates should be matched to conditions. If local exhaust ventilation, or other engineering controls mmended exposure limits. If exposure limits have not to to an acceptable level. Eye wash facilities and emerge dling this product.	s to been
ndividual protection measure Eye/face protection	-	I protective equipm sses with side shields		
Skin protection Hand protection	Wear protective	gloves such as: Nitri	ile. Polyvinyl chloride (PVC). Viton®.	
Other	•	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	Wear positive pr	Wear positive pressure self-contained breathing apparatus (SCBA). Air monitoring is needed to determine actual employee exposure levels.		
Thermal hazards			clothing, when necessary.	
General hygiene onsiderations	When using, do as washing after	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

Material name: Food Grade Silicone

1321 Version #: 01 Issue date: 04-01-2014

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Clear. Water-white.
Odor	Mild solvent.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-244.7 °F (-153.7 °C) estimated
Initial boiling point and boiling range	118.4 °F (48 °C) estimated
Flash point	< 0 °F (< -17.8 °C) Tag Closed Cup
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	8 % estimated
Vapor pressure	294.2 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.66
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	437 °F (225 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	97 % estimated
10. Stability and reactivity	

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Chlorine.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of	exposure
Ingestion	May be fatal if swallowed and enters airways.
Inhalation	May cause damage to organs by inhalation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Information on toxicological of	forts

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways. Narcotic effects.

Product	Species Test Results	
Food Grade Silicone		
Acute		
Dermal		
LD50	Rabbit	2486.1321 mg/kg estimated
Inhalation		
LC50	Rat	608.9773 mg/l, 4 hours estimated
Oral		
LD50	Rat	14860.3066 mg/kg estimated
* Estimates for product may b	e based on additional component data	a not shown.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (central nervous system, upper respiratory tract, eyes) through prolonged or repeated exposure.	
Aspiration hazard	May be fatal if swallowed and enters	s airways.
Chronic effects	May cause damage to organs throug	gh prolonged or repeated exposure.
	Overexposure to n-hexane may cau peripheral nervous system, particula	se progressive and potentially irreversible damage to the arry in the arms and legs.

12. Ecological information

Ecotoxicity	Harmful to	Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected	
Product		Species	Test Results
Food Grade Silicone			
Aquatic			
Fish	LC50	Fish	361.0246 mg/l, 96 hours estimated
Components		Species	Test Results
n-Hexane (CAS 110-54-3	3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas	s) 2.101 - 2.981 mg/l, 96 hours
Polydimethylsiloxane (CA	S 63148-62-9)		
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours
* Estimates for product m	ay be based on	additional component data not shown.	
ersistence and degradabili	i ty No data is	s available on the degradability of this produc	i.
ioaccumulative potential	No data a	No data available.	
Partition coefficient n-o 2-Methylpentane n-Hexane	ctanol / water (log Kow) 3.74 3.9	
lobility in soil	No data a	vailable.	
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal of waste from residues / unused products	If discarded, this product is considered a RCRA ignitable waste, D001. Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN1208
UN proper shipping name	Hexane mixture
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	1
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T4, TP1
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1208
UN proper shipping name	Hexane mixture
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	3H
	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	Allowed.
Cargo aircraft only IMDG	Alloweu.
	UN1208
UN number	HEXANE MIXTURE
UN proper shipping name Transport hazard class(es)	HEAANE WIATURE
Class	3
Subsidiary risk	-
Packing group	-
Environmental hazards	1
	No.
Marine pollutant EmS	F-E, S-D
	Read safety instructions, SDS and emergency procedures before handling.
Special precautions for user	read safety instructions, 505 and emergency procedures before nandling.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communicatior Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.	I
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Subpt. D)	
Not regulated. SARA 304 Emergency re	elease notification	
Not regulated. US. OSHA Specifically F	Regulated Substances (29 CFR 1910.1001-1050)	
Not listed.		
Material name: Food Crade Silion	220	000

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance n-Hexane (CAS 110-54-3) CERCLA Hazardous Substance List (40 CFR 302.4) n-Hexane (CAS 110-54-3) CERCLA Hazardous Substances: Reportable quantity n-Hexane (CAS 110-54-3) 5000 LBS Spills or releases resulting in the loss of any ingredient at or above its RO require immediate polification to the Nat

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act	Not regulated.

(SDWA) Food and Drug Not regulated. Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

2-Methylpentane (CAS 107-83-5) n-Hexane (CAS 110-54-3)

US. Massachusetts RTK - Substance List

2-Methylpentane (CAS 107-83-5) n-Hexane (CAS 110-54-3)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Methylpentane (CAS 107-83-5) n-Hexane (CAS 110-54-3)

US. Rhode Island RTK

n-Hexane (CAS 110-54-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA

EPA		
VOC content (40 CFR 51.100(s))	97 %	
Consumer products (40 CFR 59, Subpt. C)	Not regulated	
State		
Consumer products	This product is not for retail sale. It is for use in the manufacturing process only.	
VOC content (CA)	97 %	
VOC content (OTC)	97 %	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	04-01-2014
Prepared by	Allison Cho
Version #	01
Further information	CRC # 521A/C
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
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